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IF  (PKT_ENCODE[3:2] = 0)
  PKT_TYP_TX[3:0] = 4b'1001      // AUX1
  IF  (G_T_DMI = 1)
    PLD_SIZETX = DMI_MAX
  ELSE
    PLD_SIZETX = Available_Length
  END_IF
ELSE_IF (PKT_ENCODE[3:2] = 1)
  IF  (PKT_ENCODE[1:0] = 2 && G_T_DMS = 1)
    PKT_TYP[3:0] = 4b'1110      // DMS
    IF  (G_T_DMS = 1)
      PLD_SIZETX = Num_224
    ELSE
      PLD_SIZETX = Available_Length
    END_IF
  ELSEIF (PKT_ENCODE[1] = 1 && G_T_DMI = 1)
    PKT_TYP[3:0] = 4b'1010      // DMI
    IF  (G_T_DMI = 1)
      PLD_SIZETX = Num_121
    ELSE
      PLD_SIZETX = Available_Length
    END_IF
  ELSE
    PKT_TYP[3:0] = 4b'0011      // DMI
    IF  (G_T_DMI = 1)
      PLD_SIZETX = DMI_MAX
    ELSE
      PLD_SIZETX = Available_Length
    END_IF
  END_IF
ELSE_IF (PKT_ENCODE[3:2] = 2)
  IF  (PKT_ENCODE[1:0] = 2 && G_T_DH3 = 1)
    PKT_TYP[3:0] = 4b'1111      // DHS
    IF  (G_T_DH3 = 1)
      PLD_SIZETX = Num_339
    ELSE
      PLD_SIZETX = Available_Length
    END_IF
  ELSEIF (PKT_ENCODE[1] = 1 && G_T_DH1 = 1)
    PKT_TYP[3:0] = 4b'1011      // DH1
    IF  (G_T_DH1 = 1)
      PLD_SIZETX = Num_183
    ELSE
      PLD_SIZETX = Available_Length
    END_IF
  ELSE
    PKT_TYP[3:0] = 4b'0011      // DH1
    IF  (G_T_DH1 = 1)
      PLD_SIZETX = Num_27
    ELSE
      PLD_SIZETX = Available_Length
    END_IF
  END_IF
ELSE
  IF  (PKT_ENCODE[1:0] = 2 && G_T_DMS = 1)
    PKT_TYP[3:0] = 4b'1111      // DHS
    IF  (G_T_DMS = 1)
      PLD_SIZETX = Num_339
    ELSE
      PLD_SIZETX = Available_Length
    END_IF
  END_IF
  IF  (PKT_ENCODE[1:0] = 2 && G_T_DH3 = 1)
    PKT_TYP[3:0] = 4b'1110      // DMS
    IF  (G_T_DH3 = 1)
      PLD_SIZETX = Num_224
    ELSE
      PLD_SIZETX = Available_Length
    END_IF
  ELSEIF (PKT_ENCODE[1] = 1 && G_T_DMI = 1)
    PKT_TYP[3:0] = 4b'1011      // DMI

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IF  (G_T_DH3 = 1)
    PLD_SIZETX = Num_183
ELSE
    PLD_SIZETX = Available_Length
END_IF
ELSEIF (PKT_ENCODE[1] = 1 && G_T_DH1 = 1)
    PKT_TYP[3:0] = 4b'0100 // DMS
    IF  (G_T_DMS = 1)
        PLD_SIZETX = Num_121
    ELSE
        PLD_SIZETX = Available_Length
    END_IF
ELSEIF (G_T_DMI = 1)
    PKT_TYP[3:0] = 4b'0011 // DHI
    IF  (G_T_DHI = 1)
        PLD_SIZETX = Num_27
    ELSE
        PLD_SIZETX = Available_Length
    END_IF
ELSE
    PKT_TYP[3:0] = 4b'0011 // DMI
    IF  (G_T_DMI = 1)
        PLD_SIZETX = DMI_MAX
    ELSE
        PLD_SIZETX = Available_Length
    END_IF
END_IF
END_IF
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